



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
21415-90183	ACTION	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 99/04996	05/03/1999	05/03/1998
PENN STATE RESEARCH FOUND	ATION et al.	
This international Search Report has been according to Article 18. A copy is being tre	n prepared by this international Searching Autonomitted to the international Bureau.	thorfty and is transmitted to the applicant
	of a total of 5 sheets, a copy of each prior art document cited in this	s report.
Basis of the report     With regard to the language, the language in which it was filed, uni	International search was carried out on the ba ess otherwise indicated under this item.	asis of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of	the international application furnished to this
was carried out on the basis of the contained in the internation filed together with the international subsequently to turnished subsequently to the statement that the subsequently and the statement that the subsequently to the statement application as	e sequence listing: nal application in written form. mational application in computer readable for this Authority in written form. this Authority in computer readble form. sequently furnished written sequence listing of silled has been furnished.	
<ol> <li>Z Certain claims were four</li> <li>Unity of invention is lact</li> </ol>	nd unsearchable (See Box I).	· · · · · · · · · · · · · · · · · · ·
4. With regard to the title,  the text is approved as suf		S USE
5. With regard to the abstract,  the text is approved as sufficient that the text has been establish within one month from the		ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be publicated by the applicate the applicant falls because this figure better	cant.	None of the figures.

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	emational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: see FURTHER INFORMATION sheet PCT/ISA/210
2 X	Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
a 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This inte	emational Searching Authority found multiple inventions in this international application, as follows:
	·
1.	As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. <u> </u>	As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4 🗌	No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark (	on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

#### Continuation of Box I.1

Insofar as claims 3-6, 8 and 9 are directed to a method of treatment of the human/animal body and insofar as claims 18-20 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.2

Claims Nos.: 21

Claim 21, relating to an inhibitor of the DNA molecule of claims 1 and 2, could not be searched as its subject-matter is insufficiently disclosed (Art. 5, 6 PCT).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International Application No

A CLASSIFICATION OF SUBJECT MATERIAL TO COTK 14/47

/US 99/04996

C12Q1/68

G01N33/68

A61K48/00 C12N15/70

C12N15/11 C07K16/18

C12N9/00

According to tratemational Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 6 C12N C07K A61K C12Q G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.	
P,X	WO 98 33911 A (INCYTE PHARMA INC.) 6 August 1998 (1998-08-06) Please see: SEQ ID NO:2	1,3,4,7, 13-17	
P,X	GOCKE C.D.: "EXPRESSION AND LOCATION OF HNUDC, A CELL GROWTH-RELATED PROTEIN, IN HUMAN TISSUE" LABORATORY INVESTIGATION, vol. 79, no. 1, January 1999 (1999-01), page 175A XP002122519 the whole document	1,10,11, 16,18,19	

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filling date  "L" document which may throw doubts on priority claim(e) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the International search  2 December 1999	Date of mailing of the International search report  20/12/1999
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentfaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo ni,  Fax: (+31–70) 340–3016	Authorized officer Schönwasser, D

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ı	International	Application No
	/US	99/04996

C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
K	MORRIS S.M. ET AL.: "Expression of RNUDC, a Potential Nuclear Movement Protein, in Mammalian Cells: Localization to the Golgi Apparatus" EXPERIMENTAL CELL RESEARCH, vol. 238, no. 1, January 1998 (1998-01), pages 23-32, XP002122518 page 24, column 2, line 36 - line 40; figures 2,3	16
<b>\</b>	CHIU YH. ET AL.: "Extragenic Suppressors of nudC3, a Mutation That Blocks Nuclear Migration in Aspergillus nidulans" GENETICS, vol. 141, no. 2, October 1995 (1995-10), pages 453-464, XP002122521	1
<b>\</b>	MORRIS N. R. ET AL.: "Nuclear migration, nucleokinesis and lissencephaly" TRENDS IN CELL BIOLOGY, vol. 8, December 1998 (1998–12), pages 467-470, XP002122522 the whole document	1
	HILLIER L. ET AL.: "The WashU-Merck EST Project; 592753 3' similar to TR:G619907 G619907 C15 MRNA" EMBL DATABASE ENTRY HSAA60698; ACCESSION NUMBER AA160698, 19 January 1997 (1997-01-19), XP002124443 the whole document	1,2
	MILLER B.A. ET AL.: "A homolog of the fungal nuclear migration gene nudC is involved in normal and malignant human hematopoiesis"  EXPERIMENTAL HEMATOLOGY, vol. 27, no. 4, April 1999 (1999-04), pages 742-750, XP002122520 the whole document	1-20

Information on patent family members

US 99/04996

Patent family member(s) Patent document **Publication** Publication cited in search report date date WO 9833911 Α 06-08-1998 AU 5931098 A 25-08-1998

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